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BIRNBACH

COMPANY INC.

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Insulation Products Bulletin

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IPB-1

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916 MAIN STREET • BUFFALO, NEW YORK 14202 (716) 884-3450

Immediate Delivery From The Largest Inventory of Electronic Components in Western N.Y. State



HEAT SHRINKABLE PVC & POLYOLEFIN TUBING

MAXIMUM CONTINUOUS OPERATING TEMPERATURE	BIRNBACH NUMBER	SIZE	MIN. EXPANDED I.D.	MAX. RECOVERED I.D.	NOM. WALL RECOVERED
VINYL	SK265-1/32"	1/32"	.062	.031	.020
	SK265-3/64"	3/64"	.094	.047	.025
	SK265-1/16"	1/16"	.125	.063	.025
	SK265-3/32"	3/32′′	.184	.094	.025
	SK265-1/8"	1/8′′	.250	.125	.025
10500	SK265-3/16"	3/16"	.375	.188	.025
105°C	SK265-1/4"	1/4"	.500	.250	.025
IUU U	SK265-3/8"	3/8′′	.750	.375	.025
MIL-I-23053	SK265-1/2"	1/2"	1.00	.500	.030
A Grade 5	SK265-3/4"	3/4′′	1.50	.750	.035
MIL-I-631	SK-265-1	1"	2.00	1.00	.040
Grade C		U. L. Ap	proved		
IRRADIATED	SK275-1/ ₃₂ "	1/32"	.062	.031	.020
POLYOLEFIN	SK275-3/64"	3/64"	.094	.047	.025
	SK275-1/16"	1/16"	.125	.063	.025
	SK275-3/32"	3/32"	.184	.094	.025
10500	SK275-1/8"	1/8′′	.250	.125	.025
135°C	SK275-3/16"	3/16"	.375	.188	.025
IUU U	SK275-1/4"	1/4"	.500	.250	.025
	SK275-3/8"	3/8′′	.750	.375	.025
MIL-1-23053 (wep) Class I	SK275-1/2"	1/2"	1.00	.500	.030
	SK275-3/4"	3/4′′	1.50	.750	.035
5 / 01005 1	SK275-1"	1''	2.00	1.00	.040
		U. L. App	proved		

PROPERTIES CHART								
	RATING	TEST						
TENSILE STRENGTH	2960 PSI	ASTM D-876-59-T						
ULTIMATE ELONGATION	200%	ASTM D-876-59-T						
BRITTLENESS TEMPERATURE	—34° C.	ASTM D-746-57-T						
SPECIFIC GRAVITY	1.34	MIL-I-631 D, 4. 6. 12						
WATER ABSORPTION	0.06% 24 Hours	ASTM D-570-57-T Proc. A						
DIELECTRIC STRENGTH	1050 Volts/Mil	ASTM D-149-55-T						
VOLUME RESISTIVITY	5.2 x 10 ¹⁴ Ohm-cm	ASTM D-257-58 MIL-I-631 D 4. 6. 13						
FUNGUS RESISTIVITY	0-1	MIL-I-631 D 3. 5. 7 and 4. 6. 16						
FLAMMABILITY	Self-Extinguishing	ASTM D-876-60-T MIL-I-631 D, 4. 6. 13						
FLEXIBILITY AFTER HEAT AGING 200 Hrs. a 100° C. BEND OVER 1/8" MANDREL	GOOD							
CORROSION ON COPPER, BRASS AND ALUMINUM AFTER 14 DAYS a 100°C.	EXCELLENT	MIL-I-7444 B						

CHEMICAL	RESISTANCE CHART	
FUEL JP-4 MIL-J-5624	EXCELLENT	
AVIATION GASOLINE 100/130	EXCELLENT	
HYDRAULIC OIL MIL-O-5606	EXCELLENT	
HYDROCHLORIC ACID 35%	EXCELLENT	
WATER	EXCELLENT	
SODIUM CHLORIDE 5%	EXCELLENT	
ALKALIS	EXCELLENT	

*NOTE: SK265 PVC tubing is unsuitable in contact with organic solvents. SK265 PVC tubing has a higher resistance to oils than low density Polythylene.

STOCK COLORS: BLACK, WHITE, CLEAR

/_{3.}" Thru /₄" 500' — 250' — 100' — 50' — 25' /_{4."} Thru /₄" 250' — 100' — 50' — 25' /₆" Thru 1" 100' — 50' — 25'

HEAT SHRINKABLE TEFLON®TUBING

TE	EFLON®	Birnbach No.	Nominal Tubing Size	Minimum Expanded 1D	Recovered Maximum 1D (1)	l Dimensions Wall Thickness (2)
	L-I-23053 p) Class II	SK-621-22 SK-621-19 SK-621-19 SK-621-17 SK-621-17 SK-621-15 SK-621-15 SK-621-12 SK-621-12 SK-621-13 SK-621-12 SK-621-13 SK-621-13 SK-621-13 SK-621-13 SK-621-13 SK-621-13 SK-621-13 SK-621-13 SK-621-13 SK-621-13 SK-621-13	22* 20* 19 18* 17 16* 15 14* 13 12* 11 10* 9 8* 7 6* 5 4* 3 2* 1 0 %*** %*6*** %*6***	.055" .060" .065" .076" .085" .093" .110" .120" .140" .150" .170" .205" .240" .205" .240" .302" .322" .322" .326" .348" .360" .375" .385" .400" .560"	.032" .039" .043" .049" .054" .061" .067" .072" .080" .101" .112" .124" .124" .124" .178" .224" .249" .249" .311" .347" .399"	.010" .012" .012" .012" .012" .012" .012" .012" .012" .012" .012" .015"
		Standard P	ut-up36" Str	aight Lengths;		

HAG-12 500/750°F Hot Air Gun For PVC & PE Series HAG-13 750/1000°F Hot Air Gun For TE Series

The quickest and most versatile method for applying heat is the hot air gun, noted herein. Also, use of an oven, radiant heat, dipping in hot liquids, or using a soldering iron or the flame of a

HEAT SHRINKABLE TEFLON® TUBING

HEAT SHRINKABLE TEFLON® TUBING
Is a Class C material modified from polytetrafluorethylene. The tubing will shrink when heated to 621 F. (It should be heated until it turns semi-transparent, then the heating process immediately stopped. Overheating can cause splitting, therefore trial and error testing is recommended to establish the proper time and temperature for each application.) Correct procedure will result in a snugfitting insulating wrap possessing hi-heat resistance, superior chemical resistance, and excellent electrical characteristics. The tubing is available in a full range of colors. Stock colors: black, white, natural.

* Dupont Polytetrafluoroethelene

SK621 TEFLON®TUBING

TE SERIES Shrinkable "Teflon" PROPERTIES CHART

DIELECTRIC STRENGTH (20 Mil Wall)	850 Volts/Mil
DIELECTRIC CONSTANT	2.2
POWER FACTOR	.00
VOLUME RESISTIVITY	10 ¹⁷ Ohms/CM
FUNGUS RESISTANCE	Inert
FLAMMABILITYWill	Not Support Combustion
FUEL and OIL RESISTANCE	Superior
HYDRAULIC FLUID RESISTANCE	Superior
SOLVENT RESISTANCE	Superior
ACID and ALKALI RESISTANCE	Superior
CORROSION RESISTANCE	Excellent
TENSILE STRENGTH	5000-7500 PSI
ULTIMATE ELONGATION	300-500%
WATER ABSORPTION	Nil
LOW TEMPERATURE BRITTLE POINT	66°F
HARDNESS	98 Shore A
SPECIFIC GRAVITY	2.2

2



B-130 — VINYL COATED/FIBERGLASS SLEEVING Per MIL-I-3190B and NEMA Standards to 130° C.



(ASTM, NEMA Grade B-B-1) MEETS MIL-I-3190 SPECS. — Quality Electronic and Electrical Tubing. It is Class B Insulation that combines the best features of the inorganic fiberglass base sleeving with heat resistant, flexible plastic insulation. The plastic compound provides the highest electrical properties, heat stability (130° C.), flexibility and toughness. Meets performance requirements of specs. MIL-I-3190 A, NEMA VSI, ASTM D 372.

Birnbach No.	B&S Ga. Size No.	Old No.	Nom.			Birnbach No.	B&S Ga. Size No.	Old No.	Nom.
B130-24 B130-22 B130-20 B130-19 B130-18		289 290 291 —	.022 .027 .037 .038 .042		-	B130-7 B130-6 B130-5 B130-4 B130-3	7 6 5 4 3	302	.148 .166 .186 .208 .234
B130-17 B130-16 B130-15 B130-14 B130-13	17 16 15 14 13	294 295	.047 .053 .059 .066			B130-2 B130-1 B130-0 B130-3/8 B130-1/16	2 1 0 3/8" 7/6"	306 303 304	.263 .294 .330 .387 .450
B130-12 B130-11 B130-10 B130-9 B130-8	12 11 10 9 8	300 307 301	.085 .095 .106 .118 .133			B130-½ B130-5/8 B130-3/4 B130-7/8 B130-1	1/2" 5/8" 3/4" 7/8" 1"	299 296 —	.512 .640 .768 .893 1.018
	SIZES	5			STANDARD COLORS				
#24, 22, 8, 6, 4,		14,	12, 10,		Black, Red, White, Yellow, Brown, Orange, Green, Blue, Gray, Purple				
5/6", 3/8", 1/2", 5/8"					Black, Red, White, Yellow, Orange, Green, Blue				
#19, 17, 15, 13, 11, 9, 7, 5, 3				Black, Red, Yellow, Green					
#1, 0, 1/6"					Black, Yellow				
³ / ₄ ", ⁷ / ₈ ", 1' 2/ ₄ ", 2/	", 1½", ź"	1½",	13/4", 2"		Bla	ack			

OTHER COLORS AVAILABLE TO ORDER

Size	Apx. I.D.	N.E.M.A. Tolerances Inches
24	.022	.020027
22 20	.027 .034	.025032 .032 - .039
18	.042	.040049
16	.053	.051061
14	.066	.064072

N.E.M.A. Tolerances Inches

.020-.027
.025-.032
.032-.039
.040-.049
.051-.061
.064-.072
.081-.089
.102-.112
.129-.141
.162-.178
.204-.224
.258-.278
.312-.328
.375-.399
.500-.524
.625-.655

DIMENSIONAL TOLERANCES | PHYSICAL & ELECTRICAL PROPERTIES | OF VINYL COATED | B-130 VINYL COATED FIBERGLASS

Class B
Grade B-1
Dielectric Strength 4000 V.
Temperature Rating 130° C.
Low Temp. Flexibility —30° C.
Non-Flammable
Ins. Resistance Over 1,000,000 MEGS.
Corrosion Resistance Excellent
Oil Resistance Good

COLORS:

Black, Red, White, Yellow, Brown, Orange, Green, Blue, Gray, Purple

STANDARD PUT-UPS

#24 thru #151000'	- 500' - 250' - 100' - 50' - 25' - 30"
#14 thru #6	500' - 250' - 100' - 50' - 25' - 30"
#5 thru #2	250' - 100' - 50' - 25' - 30"
#1 thru ½"	250' - 100' - 50' - 25' - 36"
%6" to %"	100' - 50' - 25' - 36"
1" thru 21/2"	50′ - 25′

ALL THE ABOVE TUBING CAN BE ORDERED CUT AND MARKED TO YOUR SPECIFICATIONS

B-1200 — FLEXIBLE FIBERGLASS SLEEVING for Hi-Temperature — applications to 1200° F.

HIGH TEMPERATURE FIBERGLASS SLEEVING — Sleeving of tightly braided 100% fiberglass intended for temperatures as high as 1200° F. It provides maximum mechanical strength consistent with the ultimate in flexibility. It is treated to remove all organic matter as well as keeping the glass braid fray resistant. We can provide special construction to χ_6 " double wall construction. It can be colored for coding purposes.

Birnbach No.	B & S Gauge Size	I.I No	D. m.	В	irnbach No.	B & S Gauge Si	ze	I.D. Nom.
B1200-24	24	.0:	22	B1	200-7	7		.148
B1200-22	22	.02	27	B1	200-6	6		.166
B1200-20	20	.0.	34	B1	200-5	5		.186
B1200-19	19	.0:	38	B1	200-4	4		.208
B1200-18	18	.04	42	B1	200-3	3		.234
B1200-17	17	.04	47	B1	200-2	2		.263
B1200-16	16	.0.	53	B1	200-1	1		.294
B1200-15	15	.0:	59	B1200-0		0		.330
B1200-14	14	.06	66	B1	200-3/8	3/8		.387
B1200-13	13	.0.	76	B1	200-7/6	7/16		.450
B1200-12	12	.08	35	B1	200-1/2	1/2		.512
B1200-11	11	.03	95	B1	200-5/8	5/8		.640
B1200-10	10	.10	06	B1	200-3/4	3/4		.768
B1200-9	9	.13	18	B1:	200-7/8	7/8		.893
B1200-8	8	.13	33	B1	200-1"	1"		1.018
STANDARD COLOR: N OTHER COLORS AV TO ORDER	AILABLE	Applicable Specifications	Class	Grade	Dielectric Strength	Temp. Rating	Low Temp. Flexibility	Flame Resistance
SIZES #14 thru #2	1000' - 100' 500' - 100' 250' - 100'	Nema VSI	Н	MANAGEMENT N	Determined by Space Factor	1200°F.		Non-Flam.



TEFLON® TUBING

Thin Wall

Birnbach No.	B&S Gauge Size No.	Old No.	Nom. I.D.	Nom. Wall
T500-32	32	8013	.011	.0085
T500-30	30	8014	.012	.009
T500-28	28	8015	.015	.009
T500-26	26	8016	.018	.010
T500-24	24	8000	.022	.010
T500-22	22	8001	.027	.010
T500-20	20	8002	.034	.012
T500-19	19	Patrician .	:038	.012
T500-18	18	8003	.042	.012
T500-17	17	******	.407	.012
T500-16	16	8004	.053	.012
T500-15	15	Name of the last o	.059	.012
T500-14	14	8005	.066	.012
T500-13	13		.076	.012
T500-12	12	8006	.085	.012
T500-11	11	*******	.095	.012

STANDARD PUT-UPS

SIZES	#32	thru	26	1000′ - 500′ - 250′ -	100'
SIZES	#24	thru	11/4	<u>1000' - 500' - 250' - </u>	100′

Birnbach No.	B&S Gauge Size No.	Old No.	Nom, I.D.	Nom. Wall
T500-10 T500-9 T500-9 T500-8 T500-6 T500-6 T500-6* T500-4* T500-3* T500-4* T500-2* T500-4* T500-1/* T500-1/* T500-1/* T500-1/* T500-1/*	10 99 8776554433 22 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	8007 8008 8009 8010 	.106 .118 .125 .133 .148 .166 .186 .294 .250 .263 .294 .312 .330 .453 .515 .583 .646 .765 .765 .785 .785 .785 .785 .785 .785 .785 .78	012 015 015 015 015 015 015 015 015 015 015

Tolerance - Nos. 32 thru 0 - : .003" on Wall Tolerance — Nos. $\frac{3}{8}$ " thru 1 $\frac{1}{4}$ " — .020" on I.D., .006" on Wall

Standard Wall — MIL-I-22129C

Birnbach	B&S Gauge	Nom.	Nom.	
No.	Size No.	I.D.	Wall	
T550-24	24	.022	.012	_
T550-22	22	.027	.012	
T550-20	20	.034	.016	
T550-19 T550-18 T550-17 T550-16 T550-15	19 18 17 16 15	.038 .042 .047 .053	.016 .016 .016 .016	
T550-14 T550-13 T550-12 T550-11 T550-10	14 13 12 11 10	.066 .076 .085 .095	.016 .016 .016 .016 .016	

STANDARD PUT-UPS 1000' - 500' - 250' - 100'

Birnbach No.	B&S Gauge Size No.	Nom. I.D.	Nom. Wall
T550-9 T550-1/4 T550-8 T550-7	9 1/8 8 7	.118 .125 .133 .148	.020 .020 .020 .020
T550-5 T550-4 T550-3	5 4 3	.186 .208 .234	.020 .020 .020 .020 .020
T550-2 T550-1 T550-%	1 %	.263 .294 .312 .330	.020 .020 .020 .020
	No. 7550-9 7550-1/4 7550-8 7550-7 7550-6 7550-5 7550-4 7550-2 7550-1 7550-1/4	No. Size No. 1550-9 1550-9 1550-8 8 1550-7 7 7 1550-6 6 1550-5 1550-3 1550-2 2 1550-1	No. Size No. I.D. T550-9 T550-9 T550-8 8 133 T550-6 6 166 T550-5 5 186 T550-3 3 234 T550-2 2 263 T550-1 1 294 T550-1 1 294 T550-1 T550-4 % 312

SMALL PIECE CUTTING AVAILABLE TO ORDER STOCK COLORS: Natural, Red, Black, Blue, Brown, Green, Orange, Yellow, Gray, Violet, White.

OTHER COLORS AVAILABLE TO ORDER



B105—**EXTRUDED PLASTIC TUBING**

APPROVED FOR 105°C.-OPERATION — MEETS MIL-1-631D SPECS — A quality plastic Vinyl tubing designed for electronic and electrical insulation work. Has high dielectric strength, extreme flexibility, non-flammability, abrasion resistance, impervious to oil, water, alkalies, alcohol, solvents, etc., high heat stability and resistance to aging. Meets all A.S.T.M. specifications, Mil. Spec. (Type F, Form U, Grades A and C, Class 2, Category 1). U.L. Approved

B&S Gauge Size No.	Birnbach No.	Old Part No.	Nom. I.D.	Nom. Wall
24	B105-24	308	.022	.012
22	B105-22	311	.027	.012
20	B105-20	313	.034	.016
19	B105-19	_	.038	.016
18	B105-18	314	.042	.016
17	B105-17	_	.047	.016
16	B105-16	315	.053	.016
15	B105-15		.059	.016
14	B105-14	316	.066	.016
13	B105-13		.076	.016
12	B105-12	317	.085	.016
11	B105-11		.095	.016
10	B105-10	325	.106	.016
9	B105-9		.118	.020
	B105-8	318	133	.020
7	B105-7		.148	.020
6	B105-6	326	.166	.020
6 5 4	B105-5	210	.186	.020
3	B105-4	319	.208	.020
3	B105-3		.234	.020

STANDARD COLORS

EVEN NUMBERS — #24, 22, 20, 18, 16 — Clear Black, Yellow, Red, Green, Brown, Orange, Blue, White, Violet and Gray; #14, 12, 10, 8, 6, 4, 2, $\frac{1}{2}$, \frac

ODD NUMBERS — #19, 17, 15, 13, 11, 9, 7, 5, 3, 1, 0 — Clear, Black White; #% thru 2% — Clear, Black, White.

STANDARD PUT-UPS

#4 thru ½" 250' - 100' - 50' - 25' coils 1" & larger 50 coils	%" thru %"			100' - 50' - 25' coils
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SIZES #24 THRU #15 AVAILABLE IN 36" LENGTHS

	B&S Gauge Size No.	Birnbach No.	Old Part No.	Nom. I.D.	Nom. Wall
	2	B105-2 B105-1	320	.263 .294	.020 .020
	0 5/6" 3/8"	B105-0 B105-¾" B105-¾"	321 322	.330 .312 .375	.020 .025 .025
-	7/16 1/2" 9/4"	B105-1/6" B105-1/2" B105-1/6"	323	.438 .500 .562	.025 .025 .030
_	9/16" 5/8" 3/4"	B105-5/8" B105-3/4"	324 327	.625 .750	.030 .035
	7/8" 1" 11/6" 11/4" 13/6"	B105-7/8" B105-1" B105-11/8" B105-11/4" B105-13/8"	360 361 — 362	.875 1.000 1.125 1.250 1.375	.035 .035 .040 .040
	1½" 1¾" 2" 2¼" 2½"	B105-1½" B105-1¾" B105-2" B105-2¼" B105-2½"	363 328 329 364 265	1.500 1.750 2.000 2.250 2.500	.045 .055 .060 .065 .070

TABLE OF PHYSICAL & ELECTRICAL PROPERTIES-B-105 TUBING

Tensile Strength—2500 Psi. (Minimum Average) Flammability—Non-Flammable
Ultimate Elongation—340%
Recommended for Temperatures to—105° C
Cold Bend——40° C
Dielectric Strength .020" Wall—800 V/Mil

Varnish Baking—Good Water Absorption

Weight Increase (1 Week)—0.1%—Fungi Resistance—Yes Oil Resistance—Indefinitely flexible when immersed in oil.

Insulation Resistance—over 1,000,000 megohms.

IN STOCK

IN STOCK
The Birnbach Line of insulated sleeving and tubing is the basic quality line designed for the rigid performance requirements of the Aircraft, Electrical and Electronic Industries.

Meets or exceeds the required MIL Specifications and ASTM and NEMA standards. We invite your inquiries on special problems and requirements.



ELECTRONIC LACING CORD/TAPE

To Meet MIL-T-43435 - COMP-P - Type S - MIL-T-713A - Type P*

FLAT BRAIDED LACING TAPE - NYLON

Flat braided Hi-Tenacity Nylon Fiber impregnated with (MW) microcrystalline fungicidal wax. Engineered to stay flat. Distributes stress evenly over a wide area. Resistant to fungus, flame, abrasion, acids. Will not cut or damage insulation. Has strength, toughness and stability.

PUT UP ON 500 YARDS PER TUBE

Cat No.		Class	Width	Thick.	Test Ibs.	Yd./Lb.	
1035	Natural White		.200"	.014"	150	250	Ī
1035B	Black		.200"	.014"	150	250	
1036	Natural White	1	.120"	.014"	80	550	
1036B	Black	1	.120"	.014"	80	550	
1037	Natural White	2*	.090"	.014"	50	750	
1037B	Black	2*	.090"	.014"	50	750	
1038	Natural White	3	.062"	.010"	30	1500	
1038B	Black	3	.062"	.010"	30	1500	
1039	Natural White	4	.046"	.010"	15	2400	
1030R	Black	Λ	046"	010"	15	2400	



DACRON

Flat Braided Hi-Tenacity Dacron Fiber impregnated with special non-slip fungicidal finish. Will not cut or damage insulation. Engineered to stay flat—for strength, toughness, stability. Will not cut insulation.

PUT UP ON 500 YARDS PER TUBE

Cat. No.		Width	Thick.	Test Ibs.	Yd./Lb.
1041	Natural White	.120"	.014"	80	450
1041B	Black	.120"	.014"	80	450
1042	Natural White	.090"	.014"	48	600
1042B	Black	.090"	.014"	48	600
1043	Natural White	.060"	.010"	35	850
1043B	Black	.060′′	.010"	35	850
1044	Natural White	.046"	.010"	25	1100
1044B	Black	.046"	.010"	25	1100



ROUND NYLON LACING CORDS

This nylon lacing cord manufactured to meet Spec. MIL-T-713A Type P, Composition P, Classes 3, 2, 1. Wax finished — compounded with a fungicide to resist mildew.

PUT UP ON 1 LB. TUBES

	Cat. No. Natural	Cat. No. Black	Yds.	Diam.	Breaking Strength Lbs.
Class 1	1070	1070B	600	.039"	70
Class 2	1071	1071B	800	.029"	48
Class 3	1072	1072B	1140	.025"	32
Class 4	1072/1	1072/1B	2400	.020"	20



TEFLON-FIBERGLASS

Flat Braided Fiberglass, teflon coated and bonded for hitemperature applications (550°F). Engineered to stay flat—for strength, toughness and stability. Teflon finish increases tensile strength and abrasion resistant surface. Will not cut or damage insulation. Color: White.

PUT UP ON 500 YARDS PER SPOOL

	FOI OF	JIN JOO TARDS	I LK SI OOL		
Cat. No.	Width	Thickness	Test Lbs.	Yd./Lb.	
1045	.170′	.025"	150	200	
1046	.120"	.020"	90	200	
1047	.080′	.020"	70	280	



TEFLON®

Flat Braided Teflon for hi-temperature applications (550°F). Engineered to stay flat. Will not cut or damage insulation. Color: Brown.

PUT UP ON 500 YARDS PER SPOOL

Cat. No.	Width	Thickness	Test Lbs.	Yd./Lb.
1048	.100"	.016"	35	325
1049	.075"	.010"	15	700

ROUND LINEN LACING CORDS

This linen lacing cord is made from pure flax treated with microcrystalline wax compounded with fungicide to resist mildew. The twelve, eight and six ply cord meet Spec. MIL-T-713A Type N, Classes 1, 2 and 3 respectively. Color: Natural. Also available in Black in 1 lb. Tubes.

		4 OZ.	TUBES		
Cat. No.	Yds.	Class	Ply	Diam.	Lb. Test
1073 1076 1082 1079 1085	210 150 115 100 75	3 2 -	4 6 8 9 12	.036" .044" .051" .054" .063"	22 33 50 56 72
		8 OZ.	TUBES		
1074 1077 1083 1080 1086	425 300 235 200 150	3 2 1	4 6 8 9 12	.036" .044" .051" .054" .063"	22 33 50 56 72



1 LB. TUBES

Cat. No.	Cat. No. Y	ds. Class	Ply	Diam.	Lb. Test
1075 Natural 1078 Natural	1075B Black 1078B Black	850 — 600 3	4	.036"	22 33
1084 Natural	1084B Black	470 2	8	.051"	50
1081 Natural 1087 Natural	1081B Black 1087B Black		9 12	.054" .063"	56 72





TEFLON® TUBING

Wall

Birnbach No.	B&S Gauge Size No.	Old No.	Nom. I.D.	Nom. Wall
T500-32	32	8013	.011	.0085
T500-30	30	8014	.012	.009
T500-28	28	8015	.015	.009
T500-26	26	8016	.018	.010
T500-24	24	8000	.022	.010
T500-22	22	8001	.027	.010
T500-20	20	8002	.034	.012
T500-19	19		:038	.012
T500-18	18	8003	.042	.012
T500-17	17	*******	.407	.012
T500-16	16	8004	.053	.012
T500-15	15	PARTIE	.059	.012
T500-14	14	8005	.066	.012
T500-13	13		.076	.012
T500-12	12	8006	.085	.012
T500-11	11	NAME OF THE PERSON	.095	.012

STANDARD PUT-UPS

SIZES	#32	thru	261000′ - 500′ - 250′ - 1	100'
SIZES	#24	thru	11/4"1000' - 500' - 250' - 1	00'

Birnbach No.	B&S Gauge Size No.	Old No.	Nom. I.D.	Nom. Wall
T500-10 T500-9 T500-9 T500-16 T500-6* T500-5* T500-5* T500-4* T500-2* T500-1* T500-6* T500-6* T500-6* T500-7* T500-7* T500-7* T500-7* T500-7* T500-7* T500-7* T500-7* T500-7* T500-17* T500-17* T500-17*	10 9 8 8 7 6 5 4 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1	8007 8008 8009 8010 	.106 .118 .123 .133 .144 .166 .208 .234 .250 .263 .294 .312 .330 .390 .453 .515 .583 .640 .765 .895 1.025	.012 .015 .015 .015 .015 .015 .015 .015 .015

Tolerance - Nos. 32 thru 0 - - .003" on Wall Tolerance — Nos. $\frac{3}{8}$ " thru 1 $\frac{1}{4}$ " — .020" on I.D., .006" on Wall

Standard Wall - MIL-I-22129C

Birnbach	B&S Gauge	Nom.	Nom.
No.	Size No.	I.D.	Wall
T550-24	24	.022	.012
T550-22	22	.027	.012
T550-20	20	.034	.016
T550-19 T550-18 T550-17 T550-16 T550-15	19 18 17 16 15	.038 .042 .047 .053	.016 .016 .016 .016
T550-14 T550-13 T550-12 T550-11 T550-10	14 13 12 11 10	.066 .076 .085 .095	.016 .016 .016 .016

STANDARD PUT-UPS 1000' - 500' - 250' - 100'

Birnbach	B&S Gauge	Nom.	Nom.
No.	Size No.	I.D.	Wall
T550-9 T550-½ T550-8 T550-7 T550-6	9 % 8 7 6	.118 .125 .133 .148	.020 .020 .020 .020 .020
T550-5	5	.186	.020
T550-4	4	.208	.020
T550-3	3	.234	.020
T550-1/4	1/4	.250	.020
T550-2	2	.263	.020
T550-1	1	.294	.020
T550-¼。	%	.312	.020
T550-0	0	.330	.020

SMALL PIECE CUTTING AVAILABLE TO ORDER STOCK COLORS: Natural, Red, Black, Blue, Brown, Green, Orange, Yellow, Gray, Violet, White.

OTHER COLORS AVAILABLE TO ORDER



B105—**EXTRUDED PLASTIC TUBING**

APPROVED FOR 105°C.-OPERATION — MEETS MIL-1-631D SPECS — A quality plastic Vinyl tubing designed for electronic and electrical insulation work. Has high dielectric strength, extreme flexibility, non-flammability, abrasion resistance, impervious to oil, water, alkalies, alcohol, solvents, etc., high heat stability and resistance to aging. Meets all A.S.T.M. specifications, Mil. Spec. (Type F, Form U, Grades A and C, Class 2, Category 1). U.L. Approved

		and C, Class 2	., Category 1	O.L. Appro
B&S Gauge Size No.	Birnbach No.	Old Part No.	Nom. I.D.	Nom. Wall
24 22 20 19 18	B105-24 B105-22 B105-20 B105-19 B105-18	308 311 313 — 314	.022 .027 .034 .038 .042	.012 .012 .016 .016
17 16 15 14 13	B105-17 B105-16 B105-15 B105-14 B105-13	315 316	.047 .053 .059 .066 .076	.016 .016 .016 .016 .016
12 11 10 9 8	B105-12 B105-11 B105-10 B105-9 B105-8	317 325 318	.085 .095 .106 .118	.016 .016 .016 .020 .020
7 6 5 4 3	B105-7 B105-6 B105-5 B105-4 B105-3	326 319	.148 .166 .186 .208 .234	.020 .020 .020 .020 .020

STANDARD COLORS

EVEN NUMBERS — #24, 22, 20, 18, 16 — Clear Black, Yellow, Red, Green, Brown, Orange, Blue, White, Violet and Gray; #14, 12, 10, 8, 6, 4, 2, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, — Clear, Black, Yellow, Red, Green, Brown, Orange, Blue and White.

ODD NUMBERS — #19, 17, 15, 13, 11, 9, 7, 5, 3, 1, 0 — Clear. Black White; $\#^3\!\!/_4$ " thru $2\!\!\!/_2$ " — Clear, Black, White.

STANDARD PUT-UPS

#24 thru #15	1,000' - 500' - 100' - 50' - 25' spools
#14 thru #8	500' - 100' - 50' - 25' spools
#4 thru ½"	250' - 100' - 50' - 25' coils
%" thru "%"	100' - 50' - 25' coils
1" & larger	50 coils

SIZES #24 THRU #15 AVAILABLE IN 36" LENGTHS

B&S Gauge Size No.	Birnbach No.	Old Part No.	Nom. I.D.	Nom. Wali
2	B105-2	320	.263	.020
0	B105-1 B105-0	_	.294 .330	.020 .020
5/16" 3/8"	B105-¾" B105-¾"	321 322	.312 .375	.025 .025
7/6" 1/2" 9/6" 5/8"	B105-1/4" B105-1/4"	323	.438 .500	.025 .025
9/16 5/2"	B105-%" B105-5%"	324	.562 .625	.030
3/4	B105-3/4"	327	.750	.035
1"	B105-7/8" B105-1"	360 361	.875 1.000	.035 .035
1½" 1½"	B105-11/8" B105-11/4"	362	1.125 1.250	.040 .040
13/8"	B105-13/8" B105-11/3"	363	1.375	.040
1 ³ / ₄ " 2"	B105-13/4"	328	1.750	.055
21/4"	B105-2" B105-21/4"	329 364	2.000 2.250	.060 .065
21/2"	B105-21/2"	365	2.500	.070

TABLE OF PHYSICAL & ELECTRICAL PROPERTIES-B-105 TUBING

Tensile Strength—2500 Psi. (Minimum Average) Flammability—Non-Flammable
Ultimate Elongation—340%
Recommended for Temperatures to—105° C
Cold Bend——40° C
Dielectric Strength .020" Wall—800 V/Mil

Varnish Baking—Good Water Absorption Weight Increase (1 Week)—0.1%—Fungi Resistance—Yes

Oil Resistance—Indefinitely flexible when immersed in oil. Insulation Resistance—over 1,000,000 megohms.

IN STOCK

IN STOCK
The Birnbach Line of insulated sleeving and tubing is the basic quality line designed for the rigid performance requirements of the Aircraft Electrical and Electronic Industries.

Meets or exceeds the required MIL Specifications and ASTM and NEMA standards. We invite your inquiries on special problems and requirements.

INSULATION PRODUCTS-SPECIFICATION LISTINGS

TYPES	TEMPERATURE RANGES	SPECIFICATIONS
B-105 Polyvinylchloride	+105° C 20° C	Mil-I-631D, Type F, Form U Grades A & C U/LE-20344 ASTM-D-922 ASTM-D-876
B-65 Low Temperature Polyvinylchloride	+ 80°C 67°C	Mil-1-7444B Mil-1-22076
B-130 Vinyl Coated Fibreglass	+130°C 20°C	Mil-I-3190B, Grade B, Class B NEMA VS-1, Class B. ASTM-D-876 ASTM-D-372 U/LE-20344
T-500 Teflon Thin Wall	+250°C - 55°C	Mil-I-22129C Mil-P-14078A AMS-3651B AMS-3655B Mil-C-17D U/LE-20344
T-550 Teflon [®] - Standard Wall	+250°C 65°C	Mil-I-22129C Mil-P-14078A AMS-3651B AMS-3653B Mil-C-17D U/LE-20344
B-1200	+1200°C	NEMA-VS-1
	HEAT SHRINKABLE TUBIN	VGS
SK-265 Polyvinylchloride	+105°C -30°C	Mil-T-23053A, Class 5 B Mil-I-631D, Grade C U/LE-20344
SK-275 Irradiated Polyolefin	+135° C - 55° C	Mil-I-23053A, Class I & II AMS-3636A AMS-3637A Mil-I-7444B 20344 ASTM-D-638 ASTM-D-792 ASTM-14-53T ASTM-150-54T
SK-621	+250°C	Mil-l-23053A, Class IV
Teflon®	- 65°C	Mil-I-22129C
Flat Devide 1 Mark T	LACING TAPES & CORD	
Flat Braided — Nylon Tape		Type I, Sizes 1, 2, 3, 4,& 5 per Mil-T-43435, Finish B Mil-T-713A, Type P, Classes 1-4
Flat Braided — Dacron Tape		Type II, Sizes 2, 3, 4 & 5 per Mil-T-43435, Finish C
		Mil-T-713A, Type D, Classes 2, 3, 8
Flat Braided — Teflon®Coated Flat Braided Teflon®Tape	Fibreglass and	Mil-T-713A, Finish PTFE
Round — Nylon Cord		Mil-T-713A, Type P, Comp. P Classes 1, 2 & 3
Round — Linen Cord		Mil-T-713A, Type N, Classes 1, 2 & 3

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